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### Time Remaining: 45/45 (Minutes)

Q.1

Test 3 Work & Energy

**Physics Unit Wise** 

A ball is dropped from a height of 10 m.

- A) Its potential energy increases and kinetic energy decreases during the falls
- B) The potential energy decreases and the kinetic energy increases during the fall.
- C) Its potential energy is equal to the kinetic energy during the fall.
- D) The potential energy and kinetic energy is maximum while it is falling.

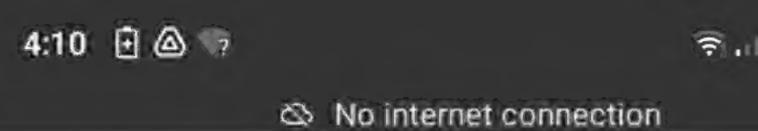
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Correct Answer:

OA OB OC OD

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How much time will be required to perform 520 J of work at the rate of 20 W?

A) 24s
B) 20 s
C) 16s
D) 26 s

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Correct Answer:

OA OB OC OD

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### Time Remaining: 44/45 (Minutes)

Q.3

Test 3 Work & Energy

Physics Unit Wise

The spring will have maximum potential energy when

- A) it is pulled out
- B) both A) and C)
- C) it is compressed
- D) neither A) nor C)

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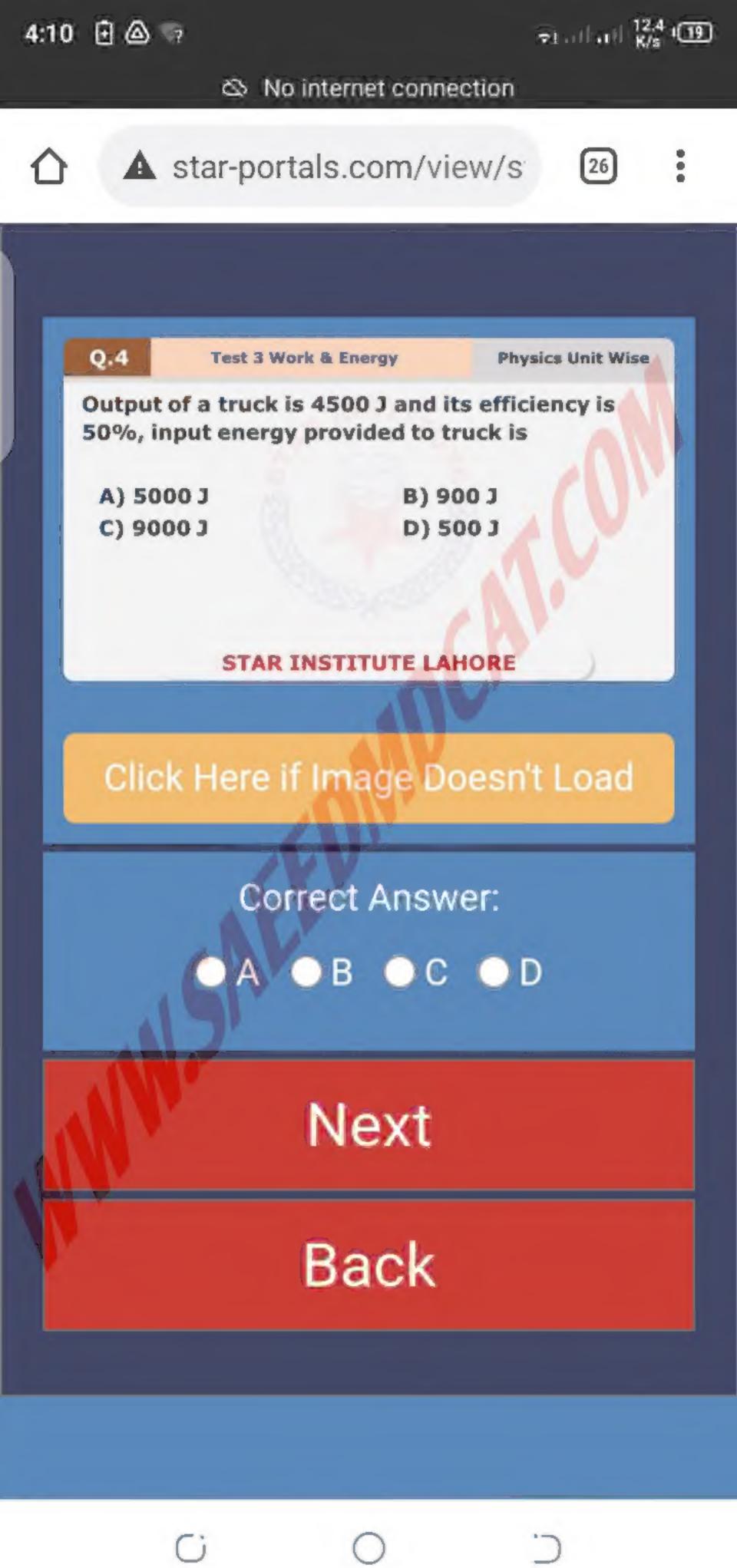
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Correct Answer:

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Q.5

Test 3 Work & Energy

**Physics Unit Wise** 

Which of the followings is an example of work done against force of gravity?

- A) Getting up with the stairs
- B) Get down with the stairs
- C) Walking on the flat ground
- D) Dropping any object down from the top

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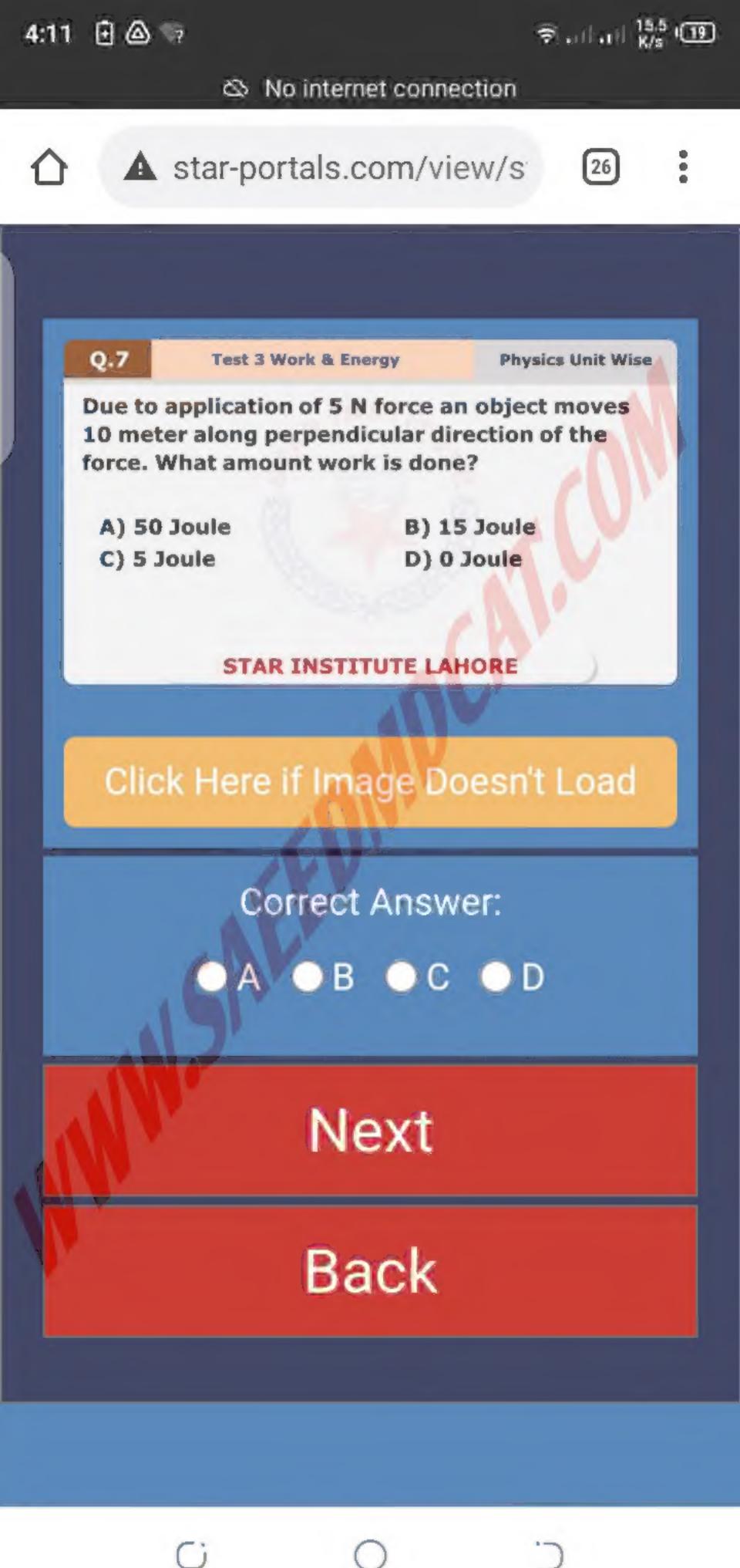
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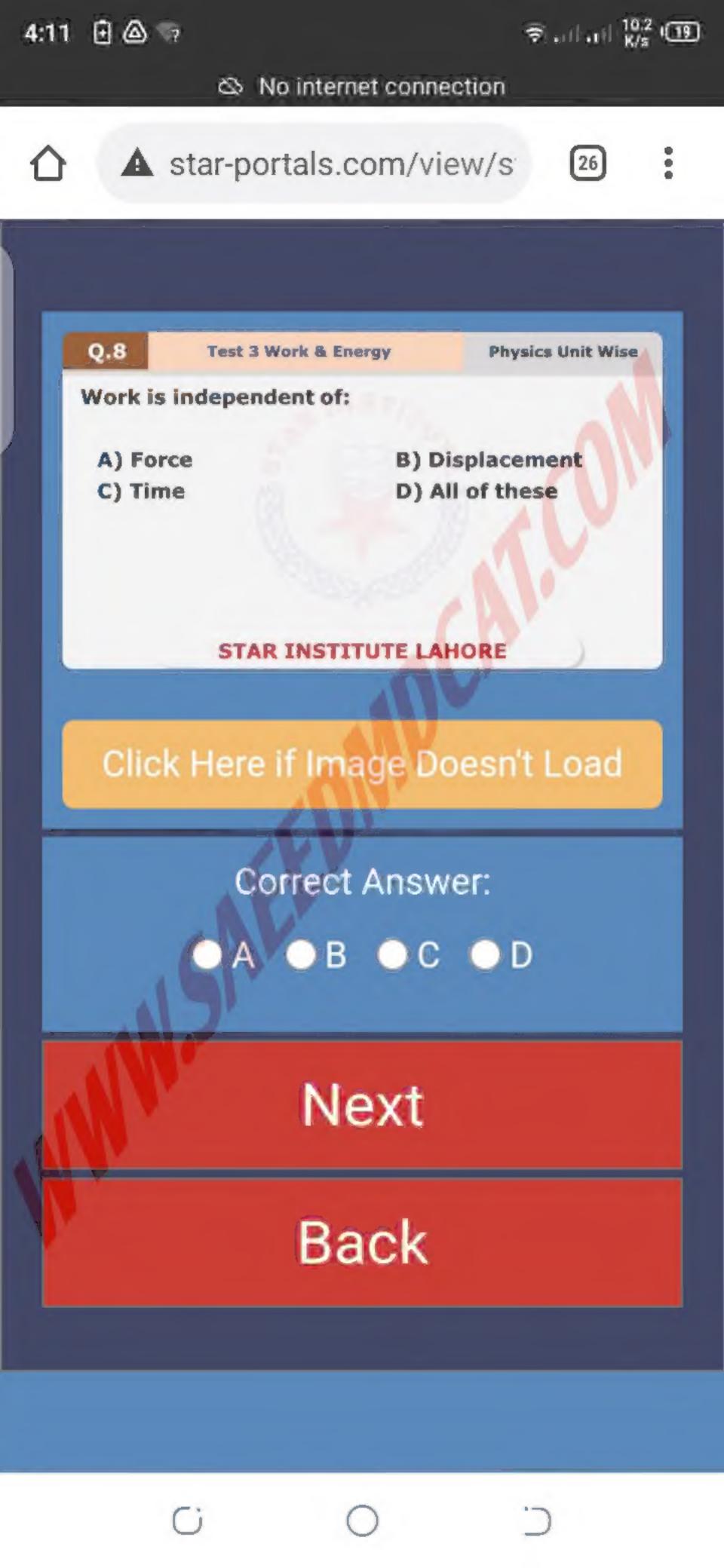
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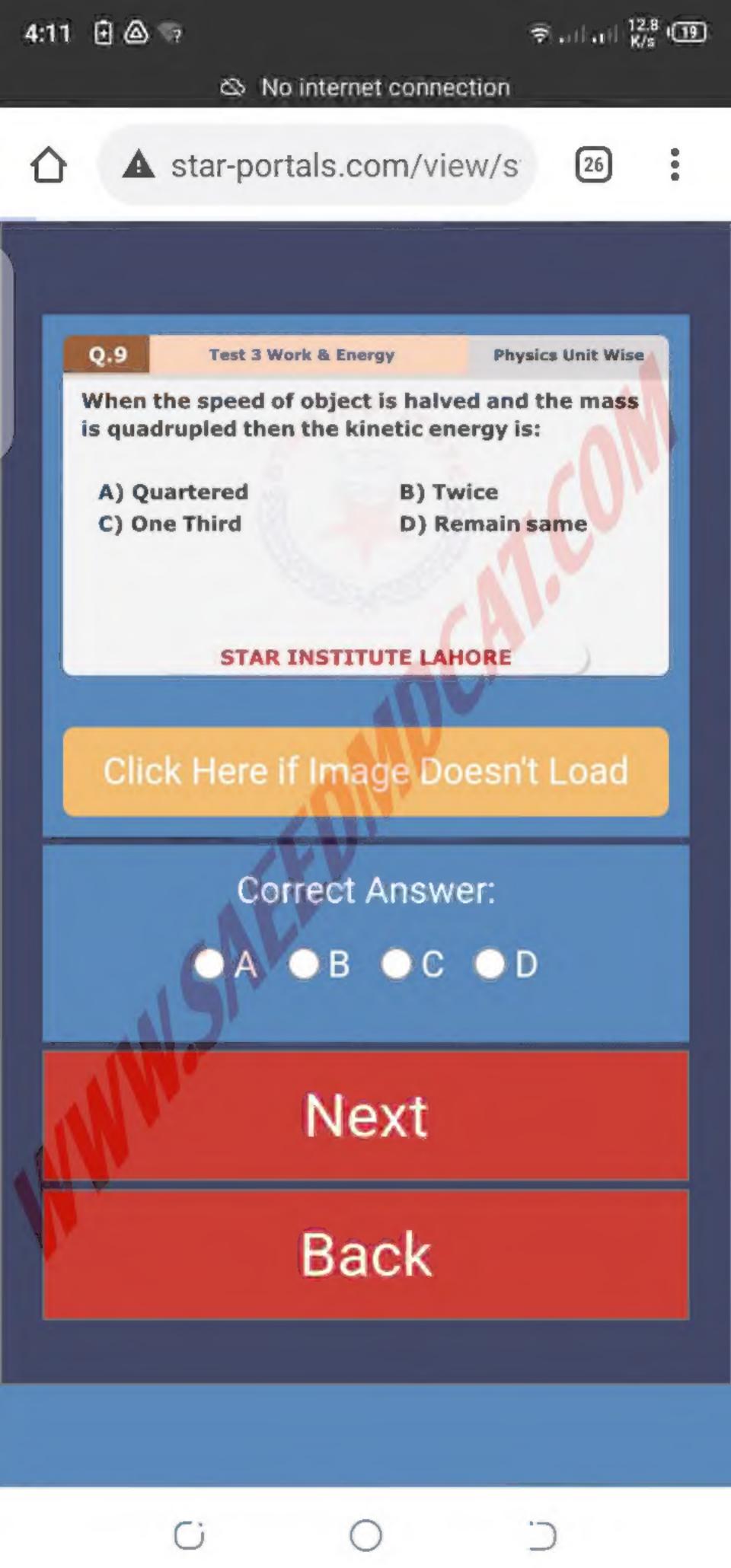
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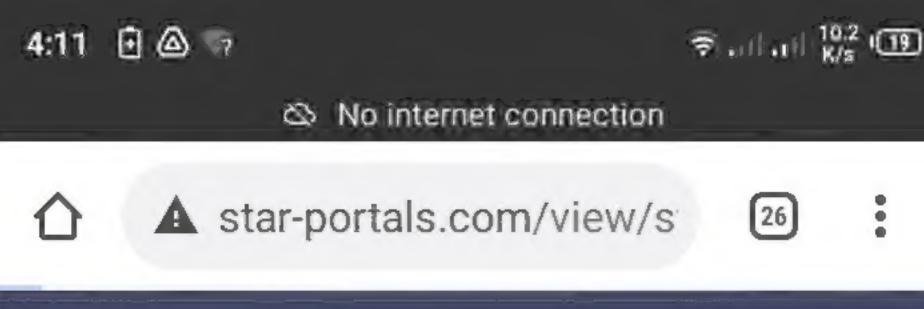
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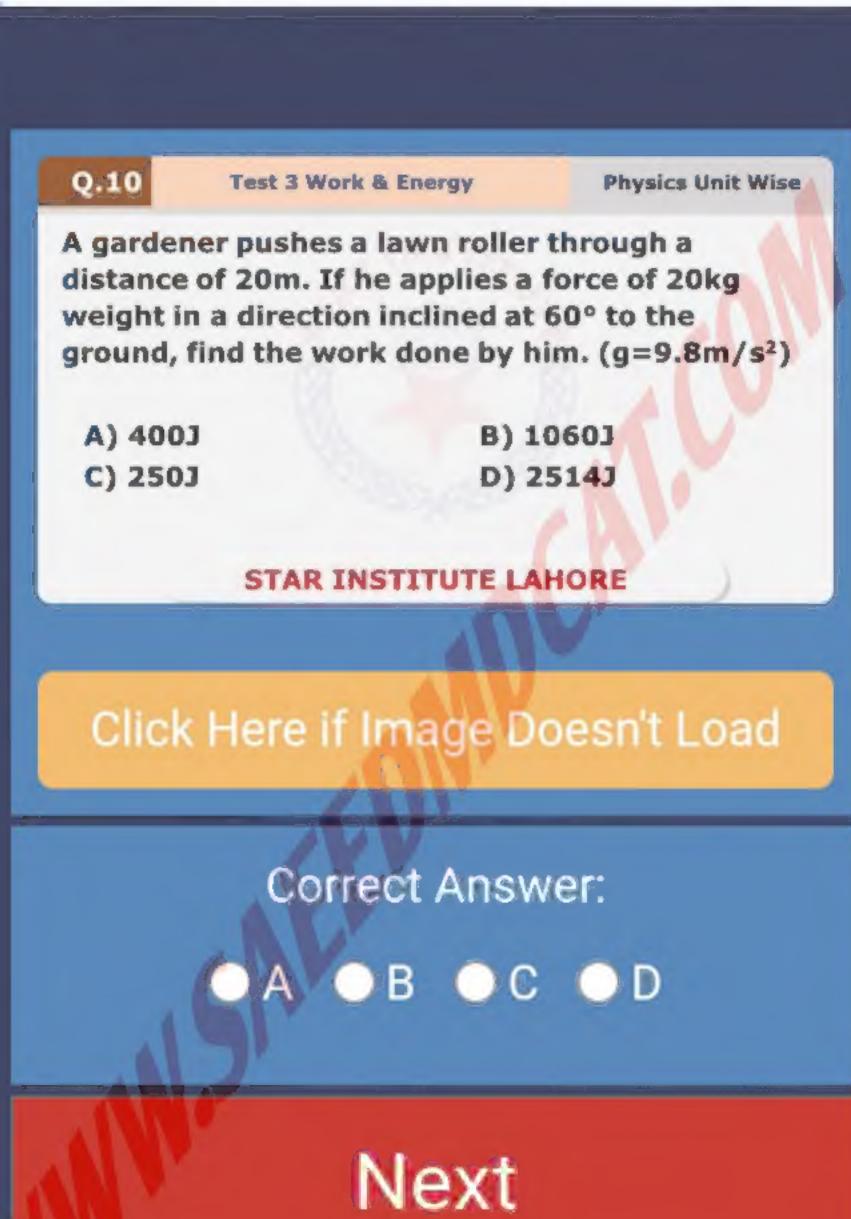




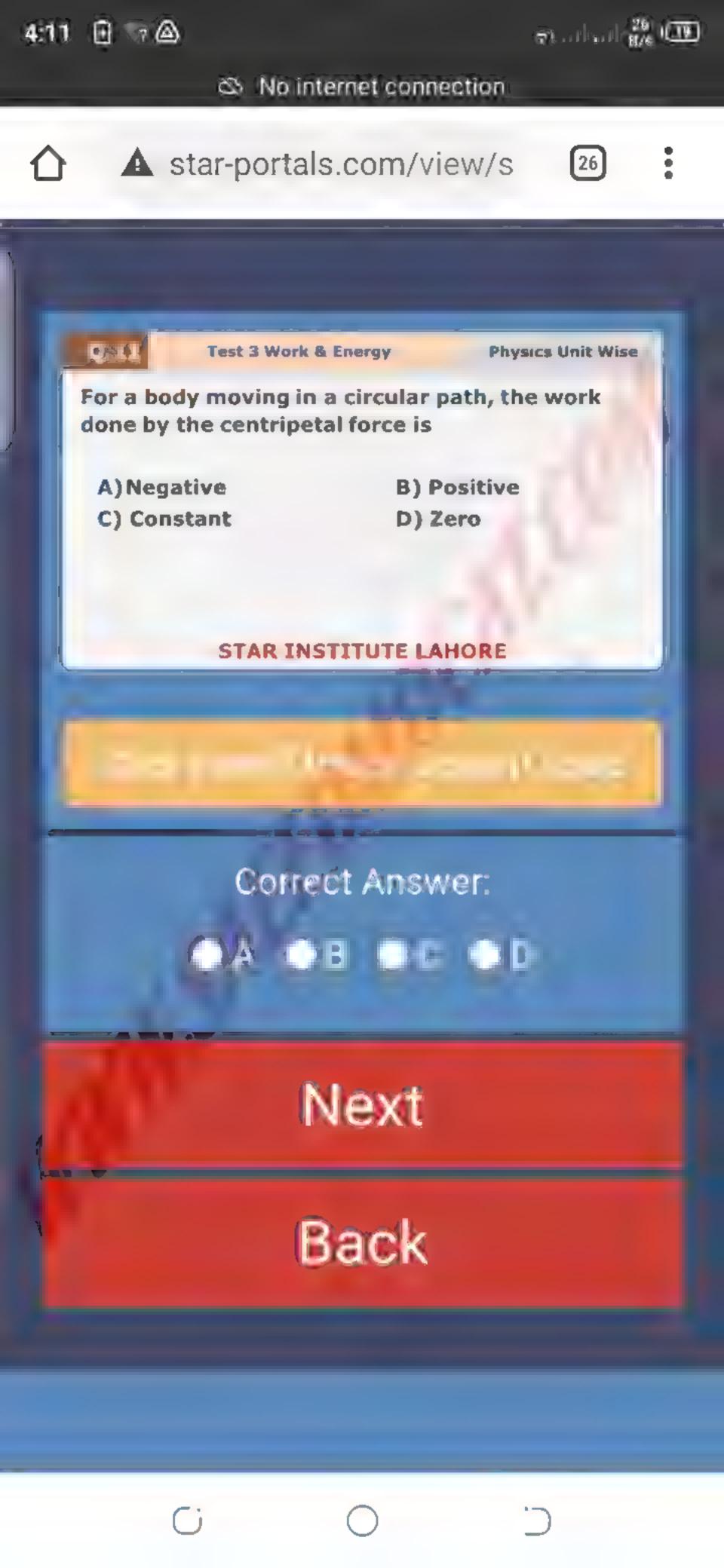


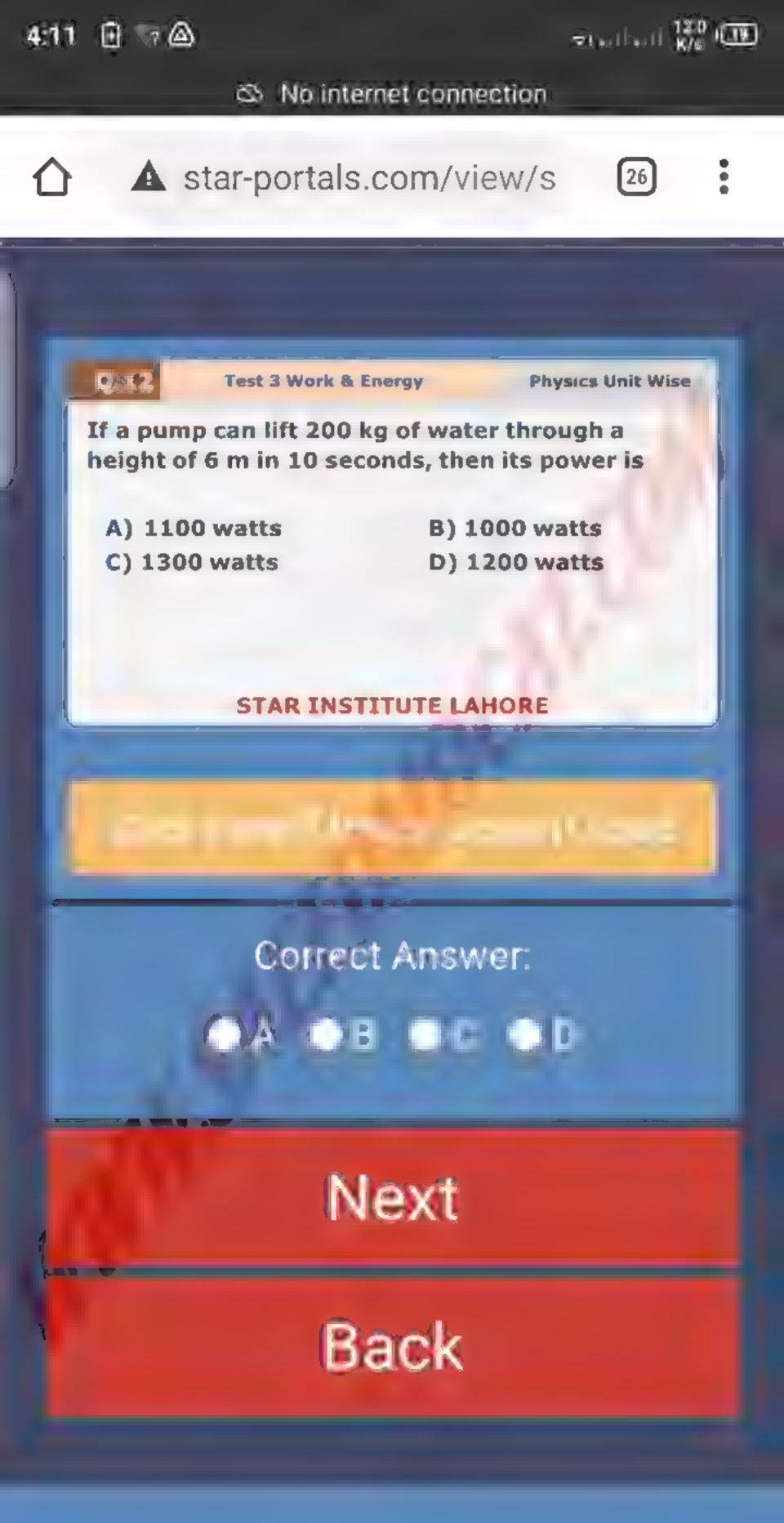


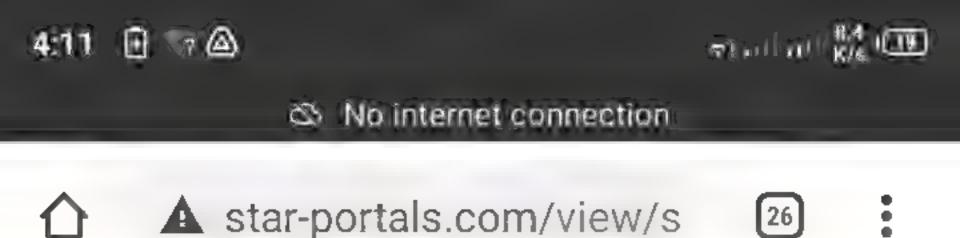


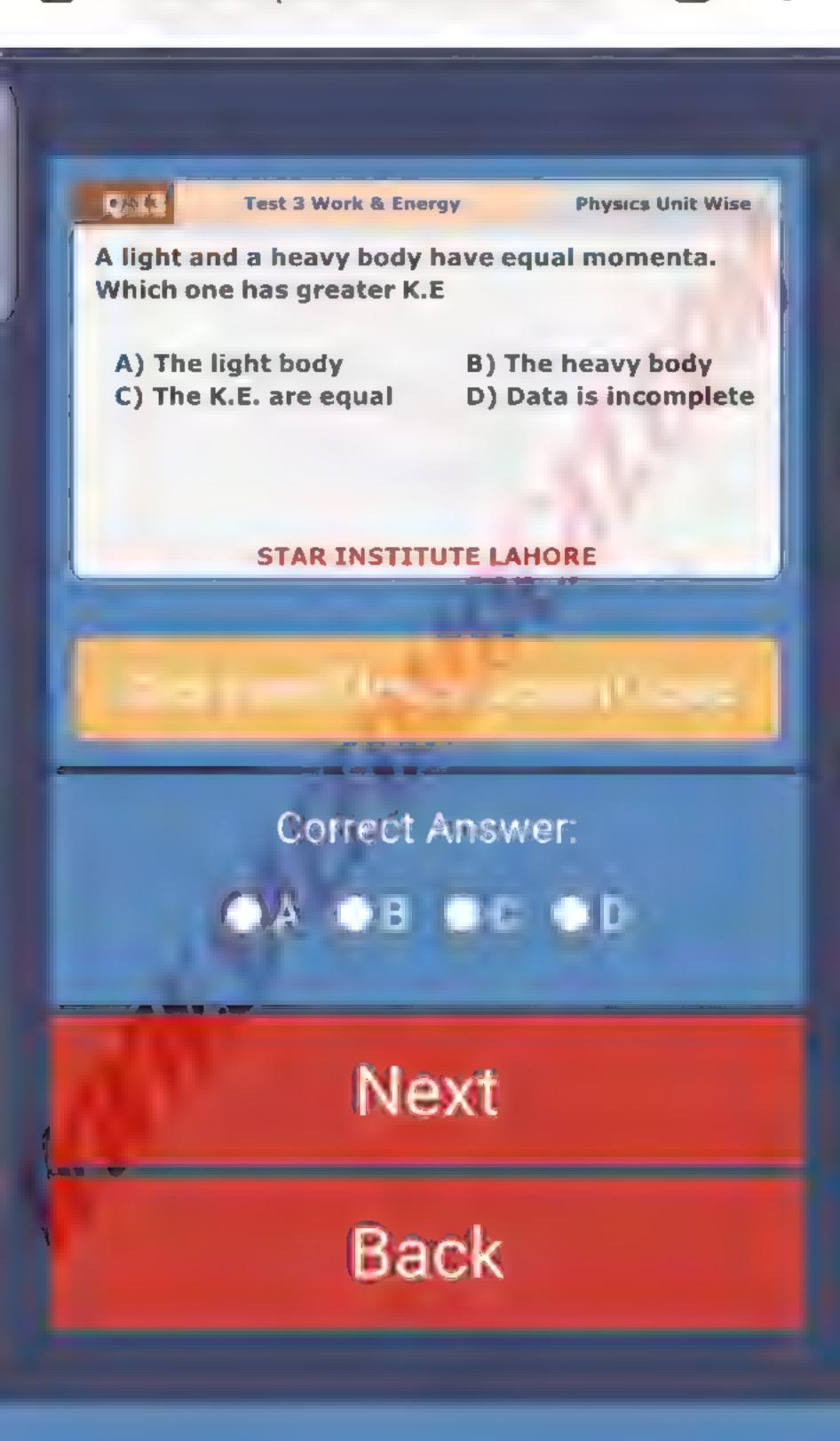


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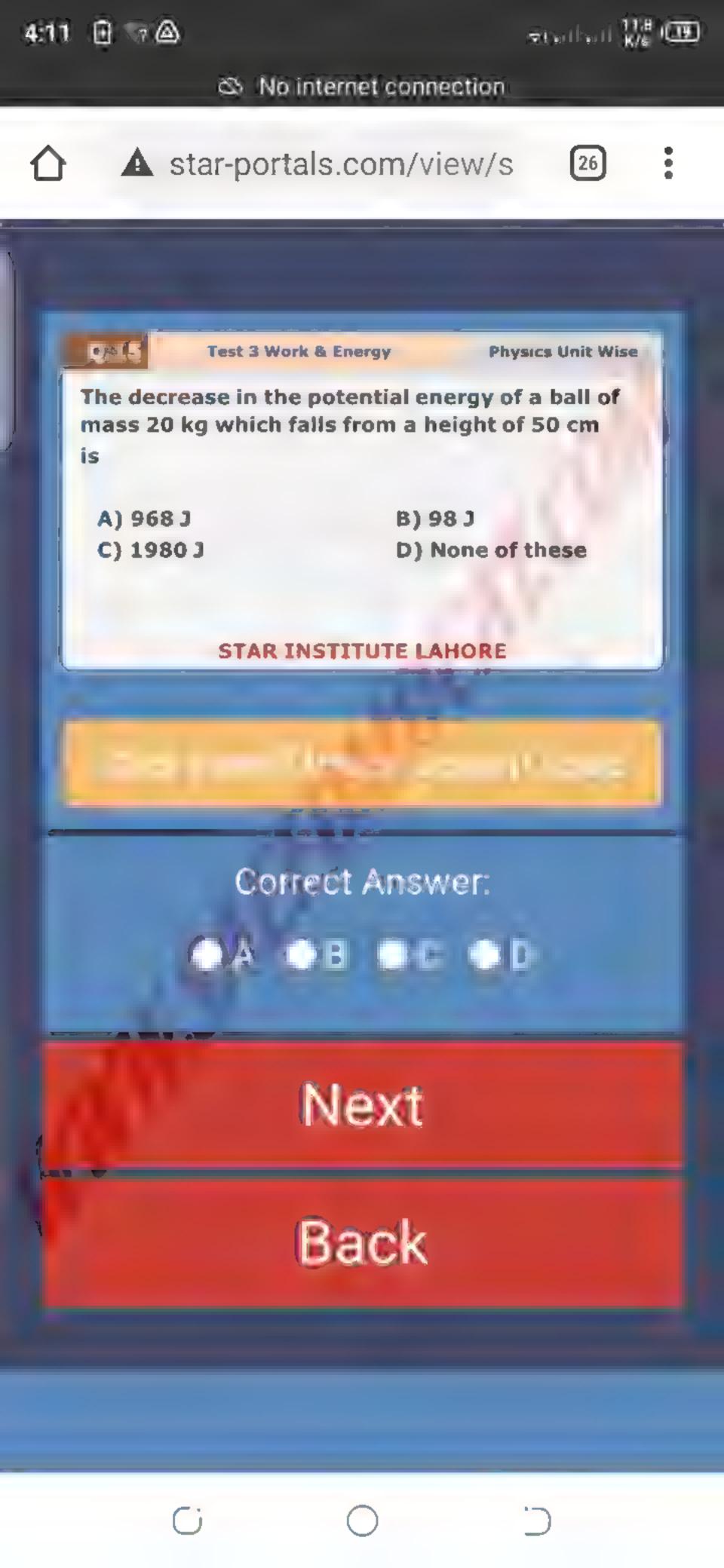


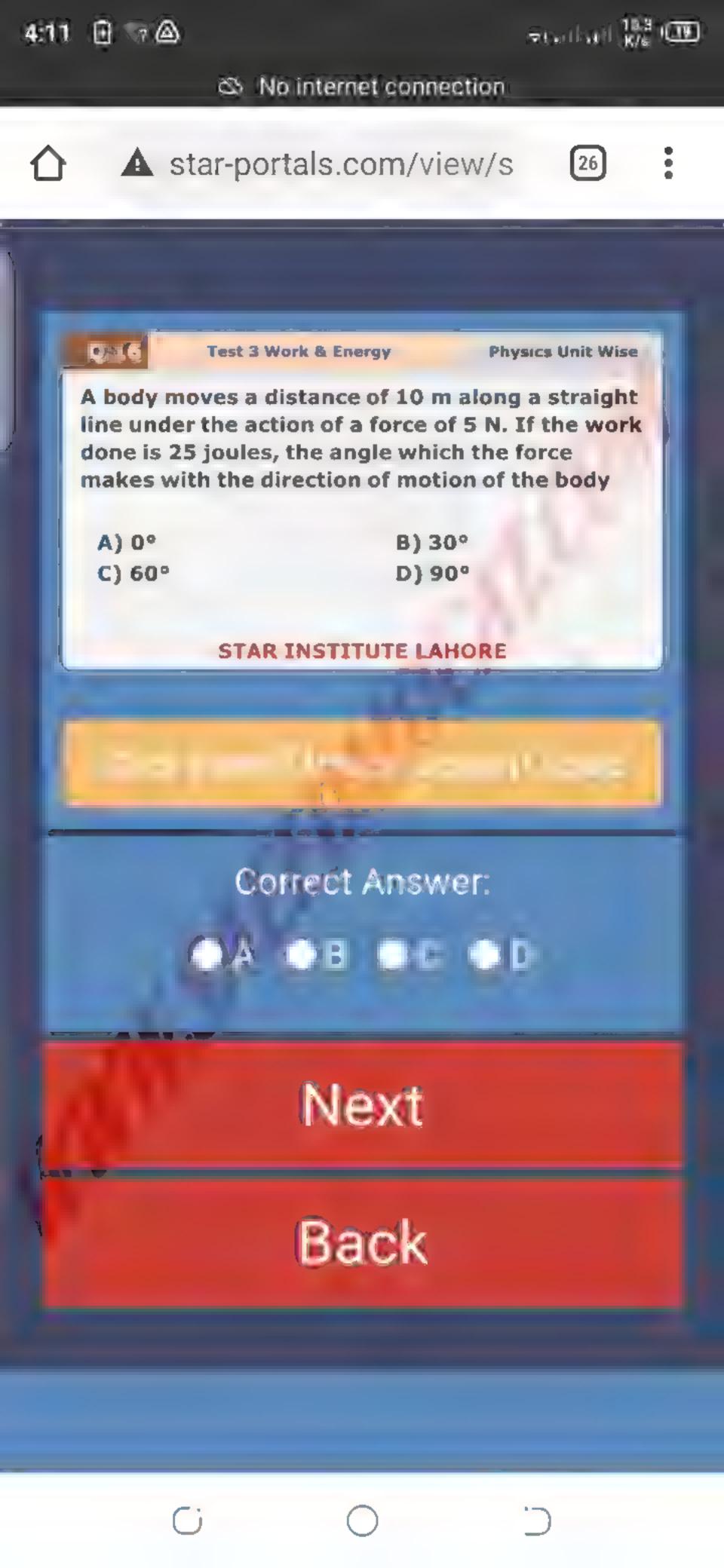


















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Test 3 Work & Energy

Physics Unit Wise

A force force newton is applied over a particle which displaces it from its origin to the point metres. The work done on the particle is

- A) -7 joules
- C) + 7 joules

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- B) + 13 joules
- D) + 11 joules

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Correct Answer:

A B B C D

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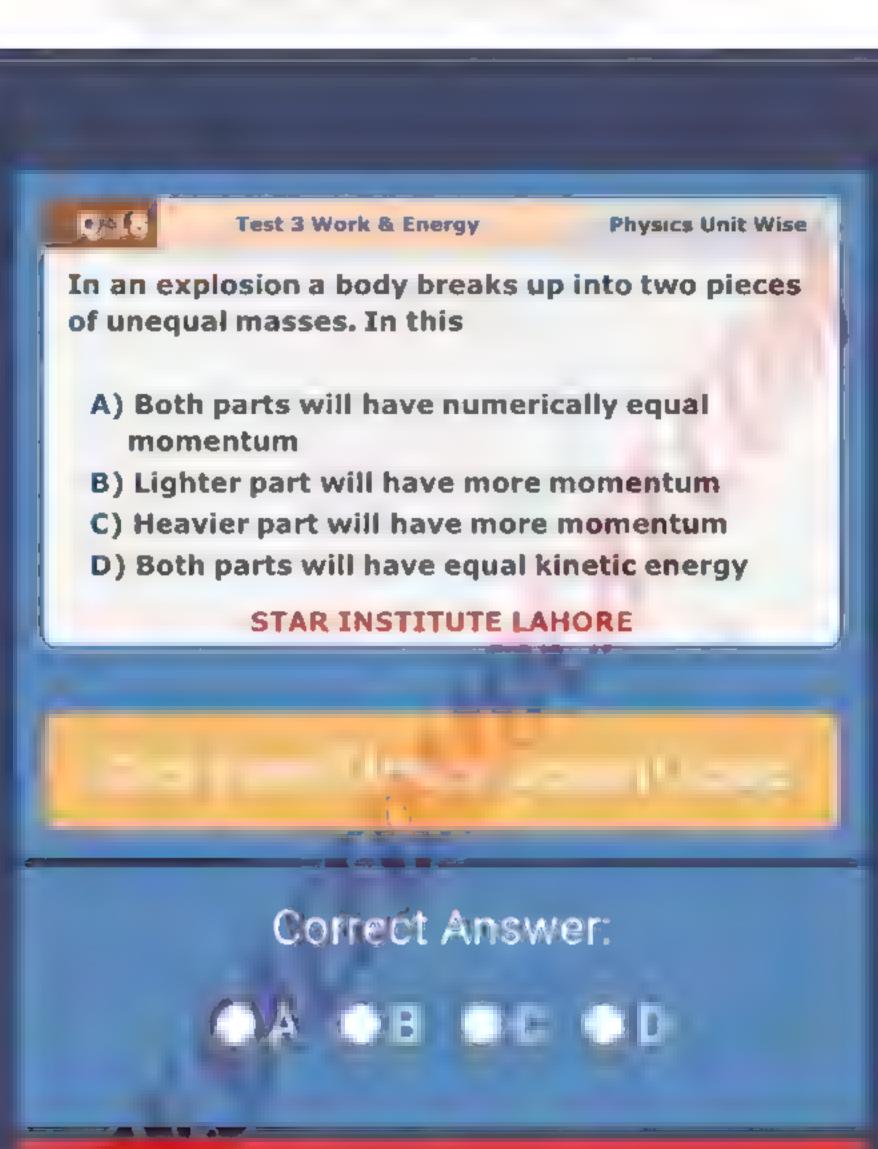




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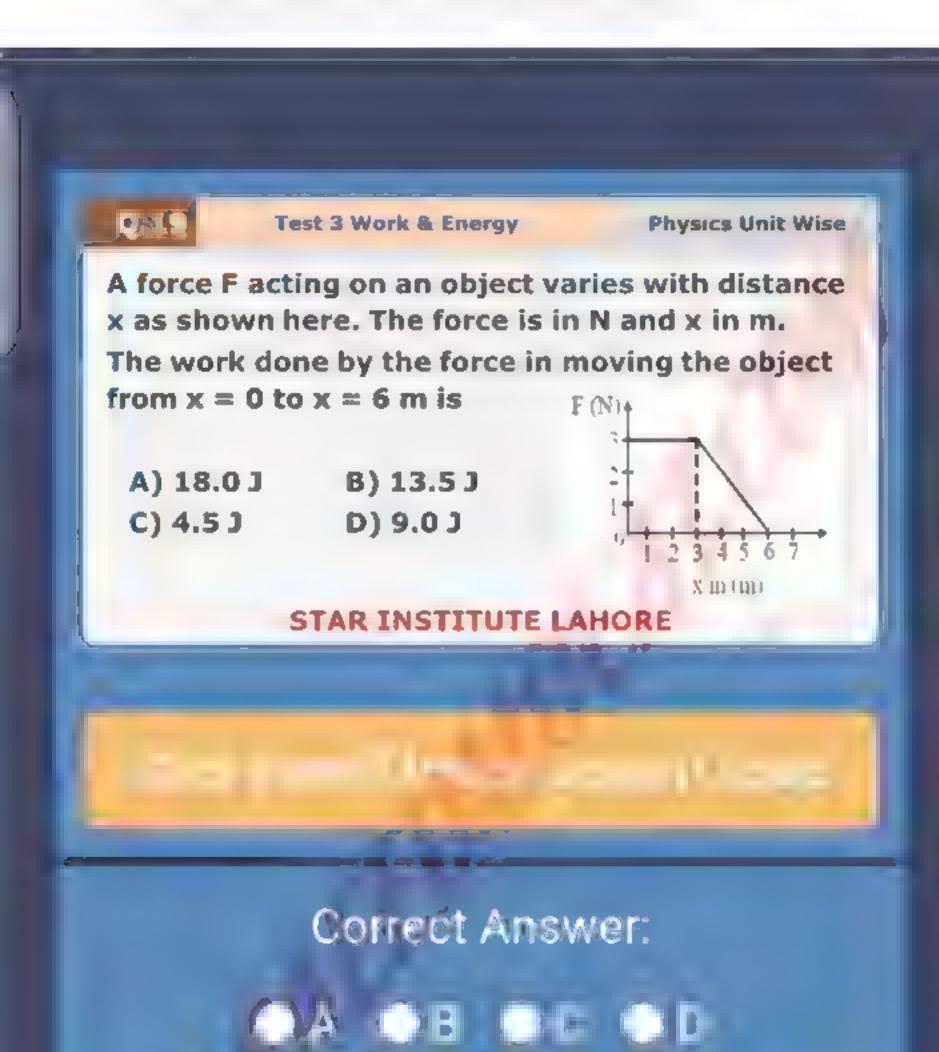




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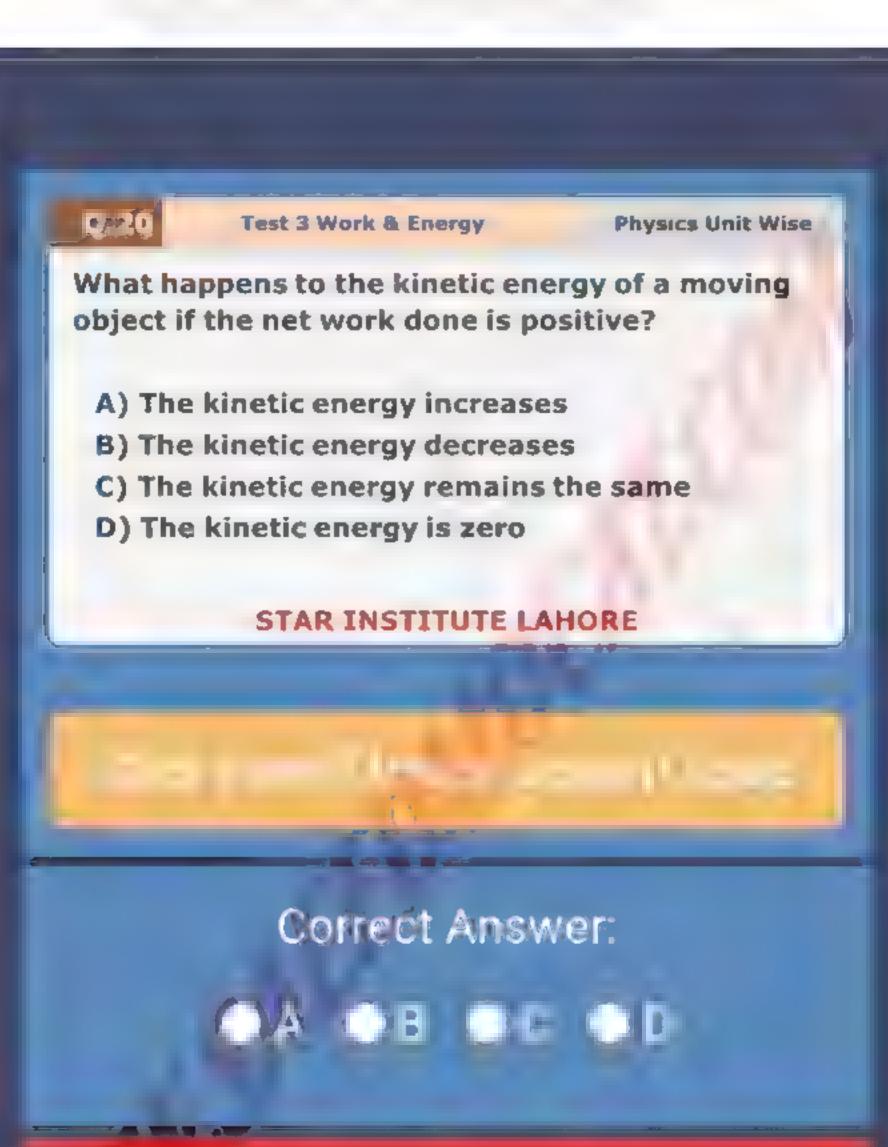




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Test 3 Work & Energy

Physics Unit Wise

In the presence of air friction, the relation for free falling body is

$$A) mgh = \frac{1}{2}mv^2 - fh$$

B) 
$$mgh = fh - \frac{1}{2}mv^2$$

C) 
$$mgh = \frac{1}{2}mv^2 + fh$$

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D) 
$$mgh = fg + \frac{1}{2}mv^2$$

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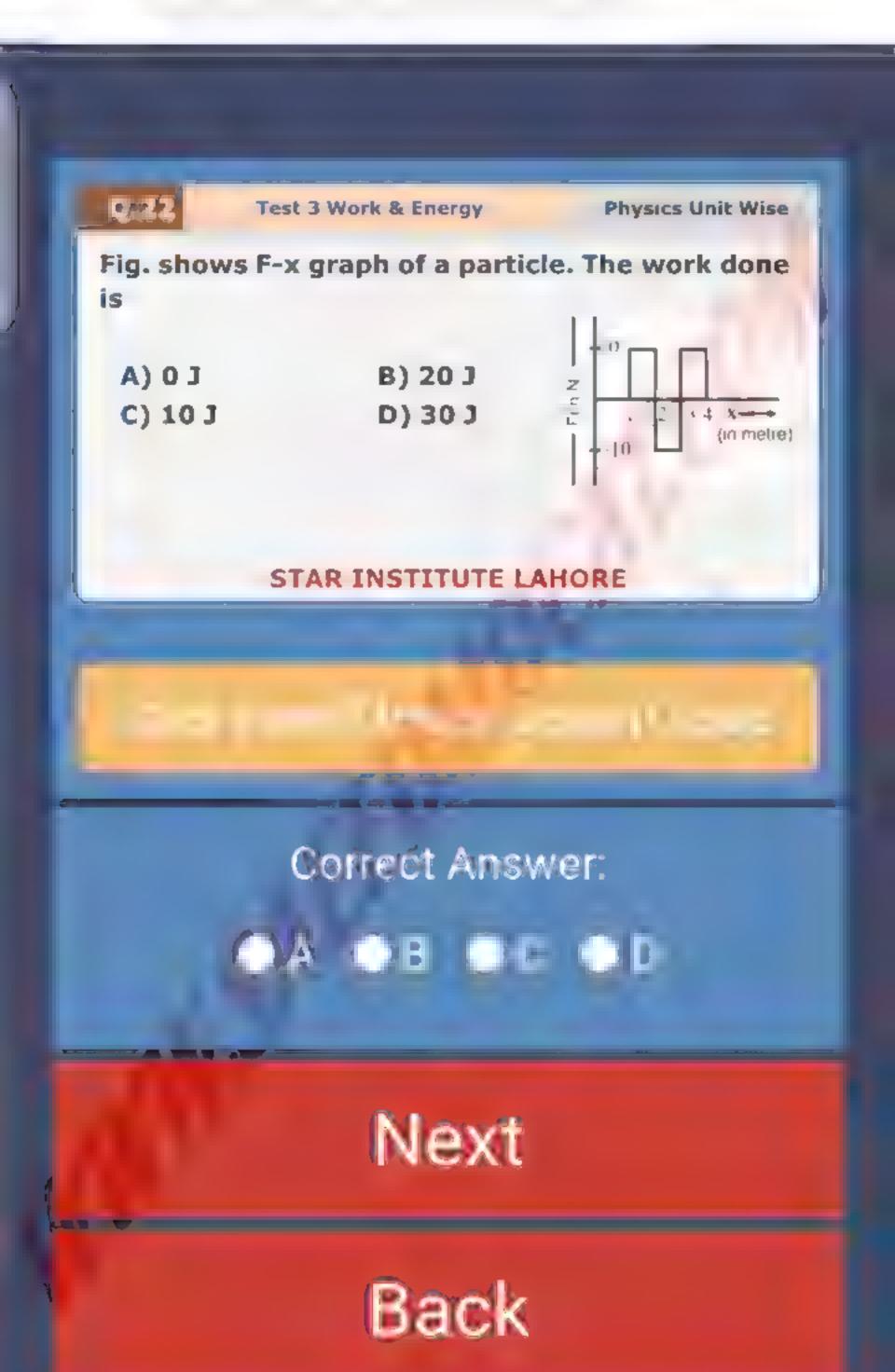




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#### Carl B

Test 3 Work & Energy

Physics Unit Wise

#### Mathematical form of work energy principle is

**A)** 
$$Fd = \frac{1}{2}mv_i^2 - \frac{1}{2}mv_f^2$$

**B)** 
$$Fd = \frac{1}{2}mv_f - \frac{1}{2}mv_i$$

C) 
$$Fd = \frac{1}{2}mv_f^2 - \frac{1}{2}mv_i^2$$

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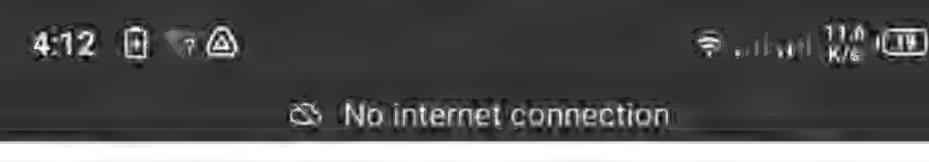
**D)** 
$$Fd = \frac{1}{2}mv_I^2 + \frac{1}{2}mv_l^2$$

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#### Correct Answer:



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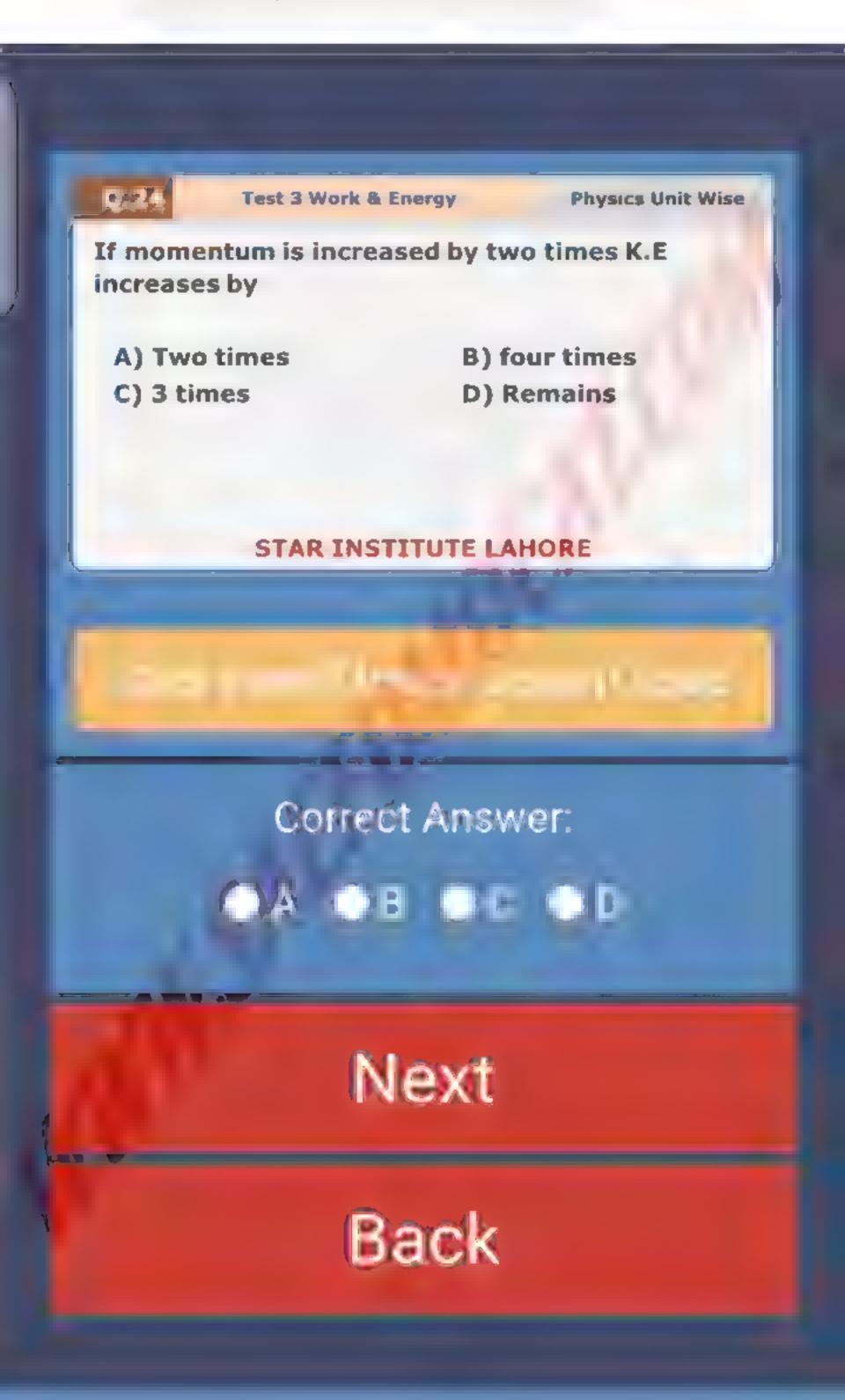




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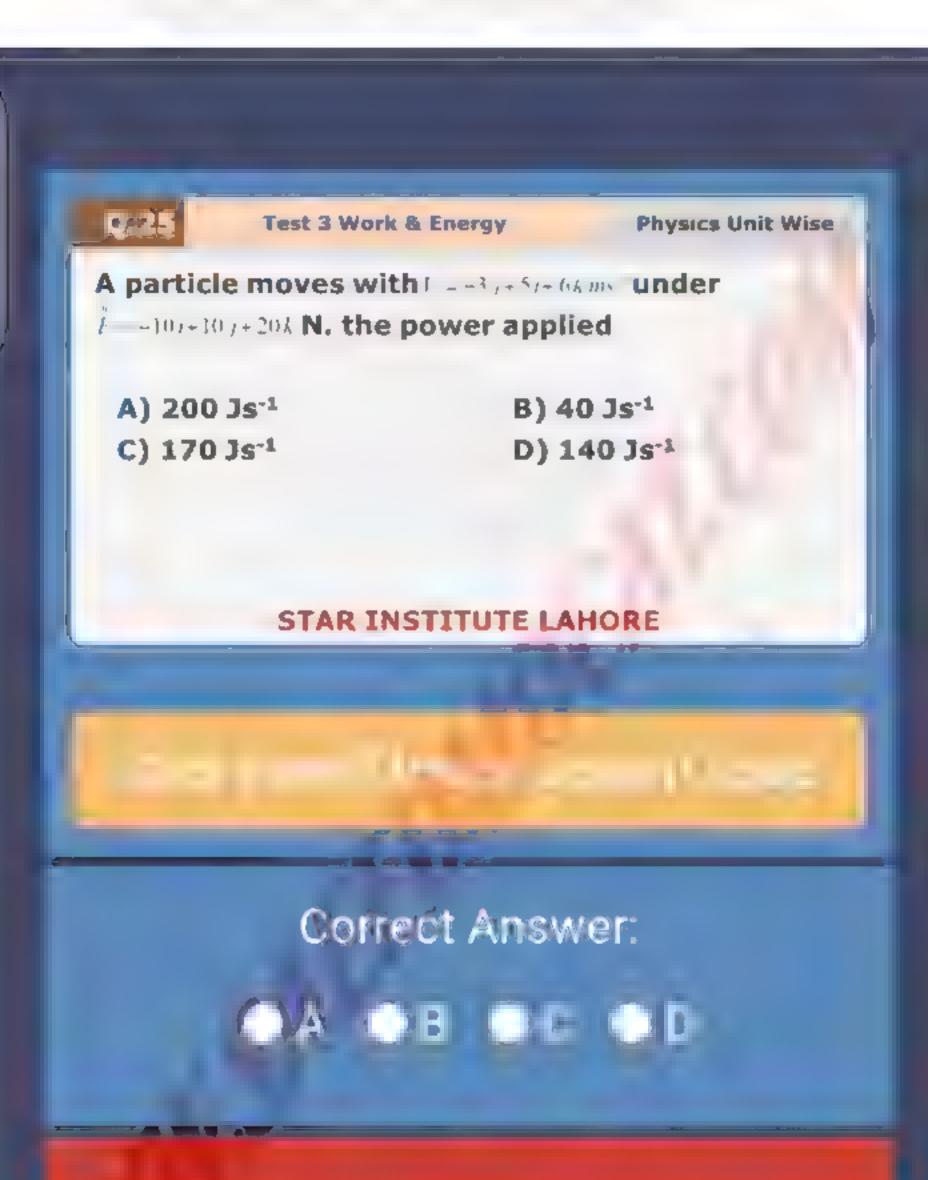




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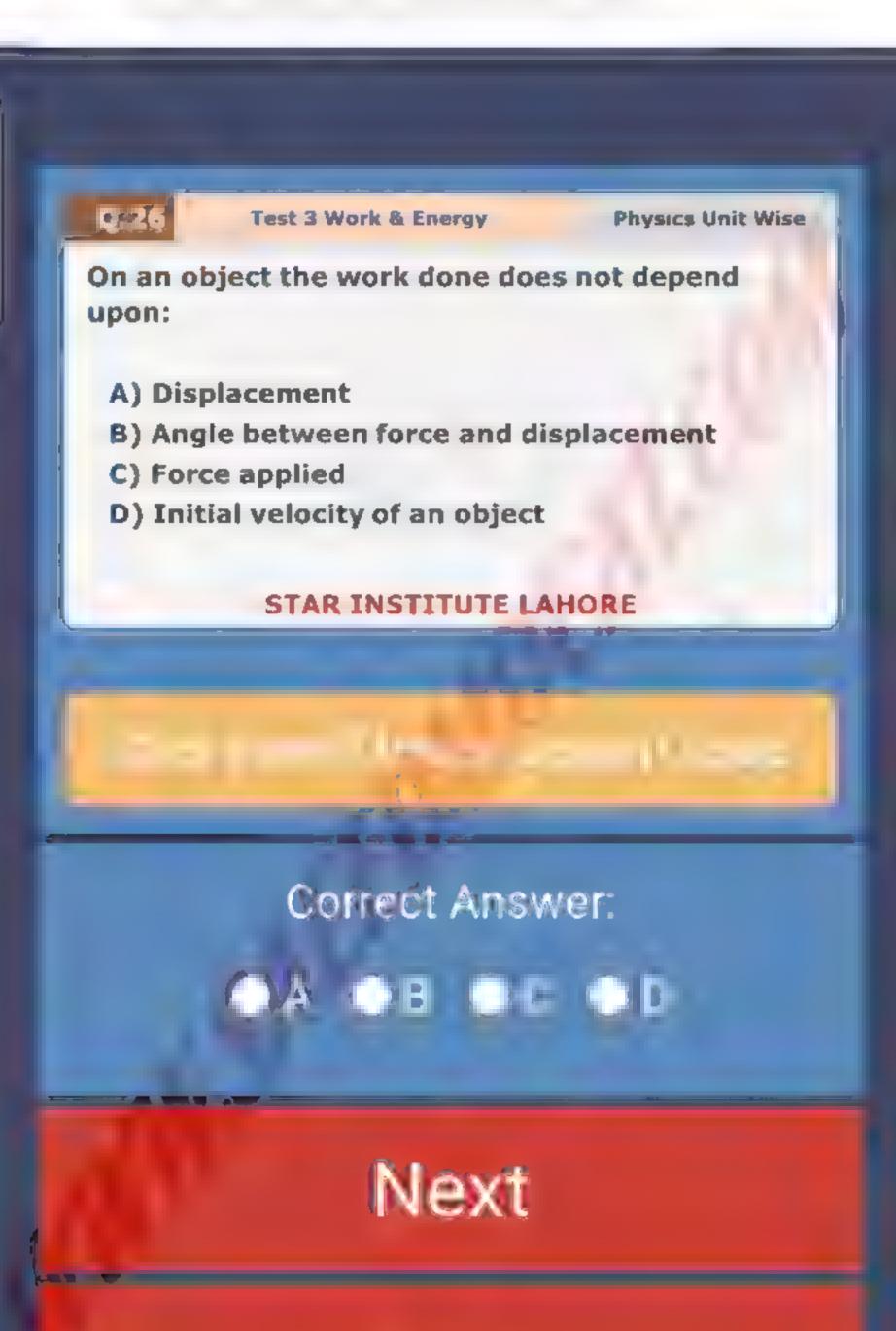




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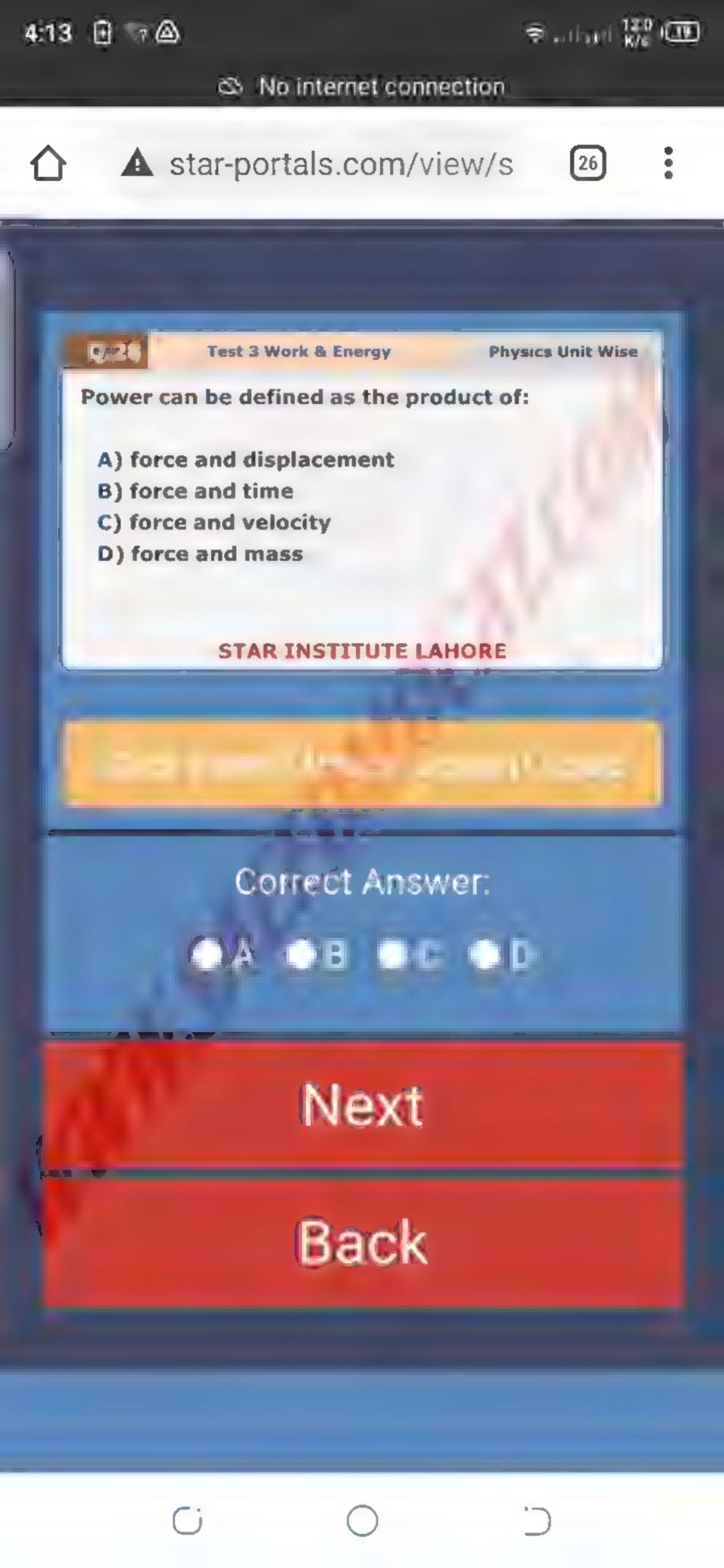
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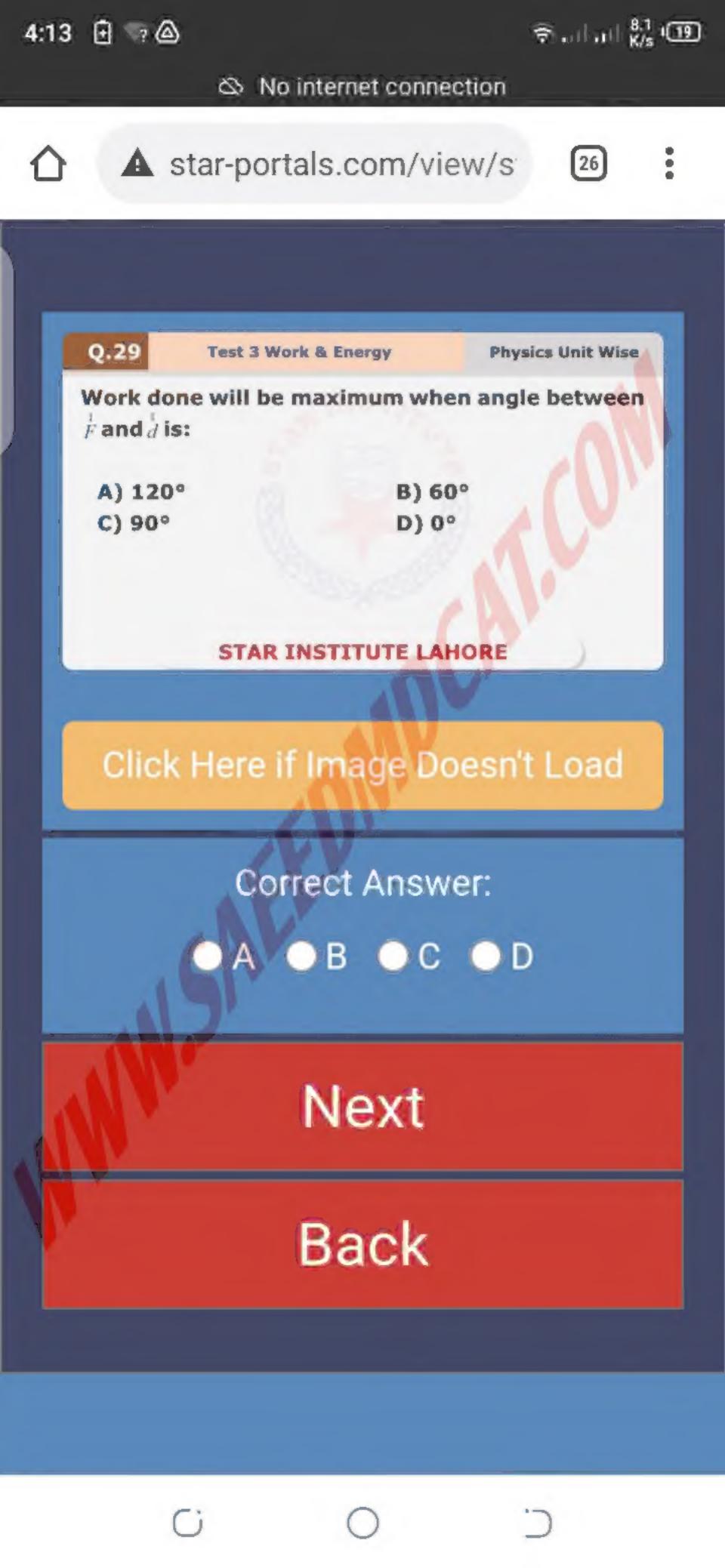
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Test 3 Work & E	nergy Physics Unit Wise
One mega watt hour is	equal to
A) 3.6 × 10 <sup>6</sup> J C) 3.6 × 10 <sup>12</sup> J	B) 3.6 × 10 <sup>8</sup> J D) 3.6 × 10 <sup>9</sup> J
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Correct Answer:	
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Q.30

Test 3 Work & Energy

**Physics Unit Wise** 

The amount of work required to stop a moving object is equal to:

- A) the velocity of the object
- B) the kinetic energy of the object
- C) the mass of the object times its acceleration
- D)the mass of the object times its velocity

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Correct Answer:

OA OB OC OD

Submit Quiz



#### **Attempt Details**

Date: 09/22/2021 11:13:22

This is a Unitwise Test | Images will be shown in class during discussion.

Total Marks: 0/30

#### **Skipped Questions Details**

1 X Correct Answer: B

2 X Correct Answer: D

3 X Correct Answer: B

4 X Correct Answer: C

5 X Correct Answer: A

6 X Correct Answer: A

7 X Correct Answer: D

8 X Correct Answer: C

9 X Correct Answer: D

10 X Correct Answer: B

11 X Correct Answer: D

12 X Correct Answer: D

13 X Correct Answer: A

14 X Correct Answer: C

15 X Correct Answer: B

16 X Correct Answer: C

17 X Correct Answer: C

18 X Correct Answer: A

8 X Correct Answer: C

9 X Correct Answer: D

10 X Correct Answer: B

11 X Correct Answer: D

12 X Correct Answer: D

13 X Correct Answer: A

14 X Correct Answer: C

15 X Correct Answer: B

16 X Correct Answer: C

17 X Correct Answer: C

18 X Correct Answer: A

19 X Correct Answer: B

20 X Correct Answer: A

21 X Correct Answer: C

22 X Correct Answer: C

23 X Correct Answer: C

24 X Correct Answer: B

25 X Correct Answer: D

26 X Correct Answer: D

27 X Correct Answer: D

28 X Correct Answer: C

29 X Correct Answer: D

30 X Correct Answer: B